

Shp Oct 29

Work Order ID 63065



Page 1

Tuesday, October 19, 2010 3:26:42 PM

Item ID: D4131-1

Accept



Setup Start



Revision ID:

Item Name: Front Plate

Stop



Start Date: 10/19/2010 Start Qty: 4.00



Cust Item ID:

Required Date: 10/26/2010 Req'd Qty: 4.00



Customer:

Reference:

Approvals: Process Plan:



Date: 10-10-19 Tooling:

Date:

Run Start



QC:

Date: SPC (Y/N):

Date:

Stop

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID

Tool #

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

Draw Nbr	Revision Nbr
D4131	A

100



Waterjet

FLOW CNC Waterjet

304 1050

Memo

1-Cut as per Dwg

Dwg Rev: A

Prog Rev: A

2-Deburr if necessary

B10-10-21

(4)

110



QC

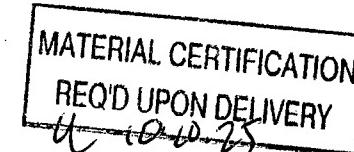
Quality Control

QC2- Inspect parts off machine FAI/FAIB

0.00

0.00

B10-10-21



W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Work Order ID 63065

Page 2

Tuesday, October 19, 2010 3:26:42 PM

Item ID: D4131-1

Accept



Setup Start



Revision ID:

Item Name: Front Plate

Stop



Start Date: 10/19/2010 Start Qty: 4.00



Cust Item ID:

Required Date: 10/26/2010 Req'd Qty: 4.00



Customer:

Reference:

Approvals: Process Plan:

Date: Tooling:

Date:

Run Start



QC:

Date: SPC (Y/N):

Date:

Stop

Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

120



QC

Quality Control

QC8- Inspect parts - second check

0.00

4

10/02/11

130



Packaging

Packaging

Identify as per dwg & Stock Location:

weldy

0.00

u 101022

4

140



QC

Quality Control

QC21- Final Inspection - Work Order Release

0.00

Memo

0.00

u 10.10.29

MF
10-11-01

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

Page 1

Tuesday, October 19, 2010 3:26:46 PM

Work Order ID: 63065



Parent Item: D4131-1



Parent Item Name: Front Plate

Start Date: 10/19/2010

Required Date: 10/26/2010

Start Qty: 4.00

Required Qty: 4.00

Comments: IPP Rev:A 10.10.06 new issue DD verf:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
M304S18GA 304/316 .050 Sheet		Purchased	No			100	sf	94.8879	0.1807	0.760842		10-10-21	

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
MAT20	94.8879	
111743	6.55	
112885	0.1679	112885
113062	40.17	
115389	48	

(4)

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

DART AEROSPACE LTD	Work Order:	63065
Description: Front PLATE	Part Number:	D4131-5
Inspection Dwg: D4131-1 Rev: A		Page 1 of 1

FIRST ARTICLE INSPECTION CHECKLIST

X First Article Prototype

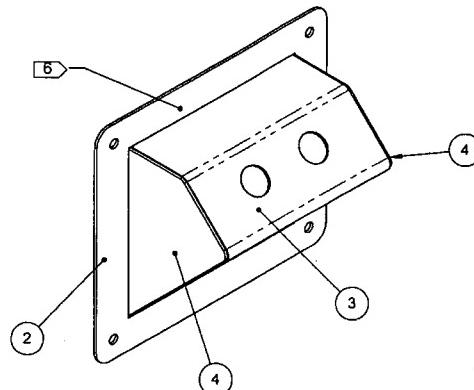
Measured by:	<u>RB</u>	Audited by:	<u>/</u>	Prototype Approval:	N/A
Date:	10-10-21	Date:	10/10/21	Date:	N/A

Rev	Date	Change	Revised by	Approved
A		New Issue	KJ/JLM	

8 7 6 5 4 3 2 1

D

D



SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 63063

PJW 10-9

D4131-041 MANIFOLD ASSEMBLY

NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: PER QSI 044 6.1
- 7) WEIGHT: 0.64 lbs

8 7 6 5 4 3 2 1

ITEM	QTY	PART NUMBER	DESCRIPTION
1	X	D4131-041	MANIFOLD ASSEMBLY
2	1	D4131-1	FRONT PLATE
3	1	D4131-3	BASE
4	2	D4131-5	SIDE PLATE

A	NEW ISSUE		RF	10.09.16
REV.	DESCRIPTION		BY	DATE
DESIGN	RF	DART AEROSPACE USA, INC. PORT HADLOCK, WA		
DRAWN	RF	DRAWING NO.	REV. A	
CHECKED	<i>MP</i>	D4131	SHEET 1 OF 8	
MFG. APPR.	<i>MP</i>	TITLE	SCALE	
APPROVED	<i>MP</i>	MANIFOLD ASSEMBLY	NTS	
DE APPR.	<i>MP</i>			
DATE	10.09.16		COPYRIGHT © 2010 BY DART AEROSPACE USA, INC. THIS DOCUMENT IS PROPRIETARY MATERIAL AND IS PROVIDED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COMMERCIAL PURPOSES WITHOUT THE WRITTEN PERMISSION FROM DART AEROSPACE USA, INC.	

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

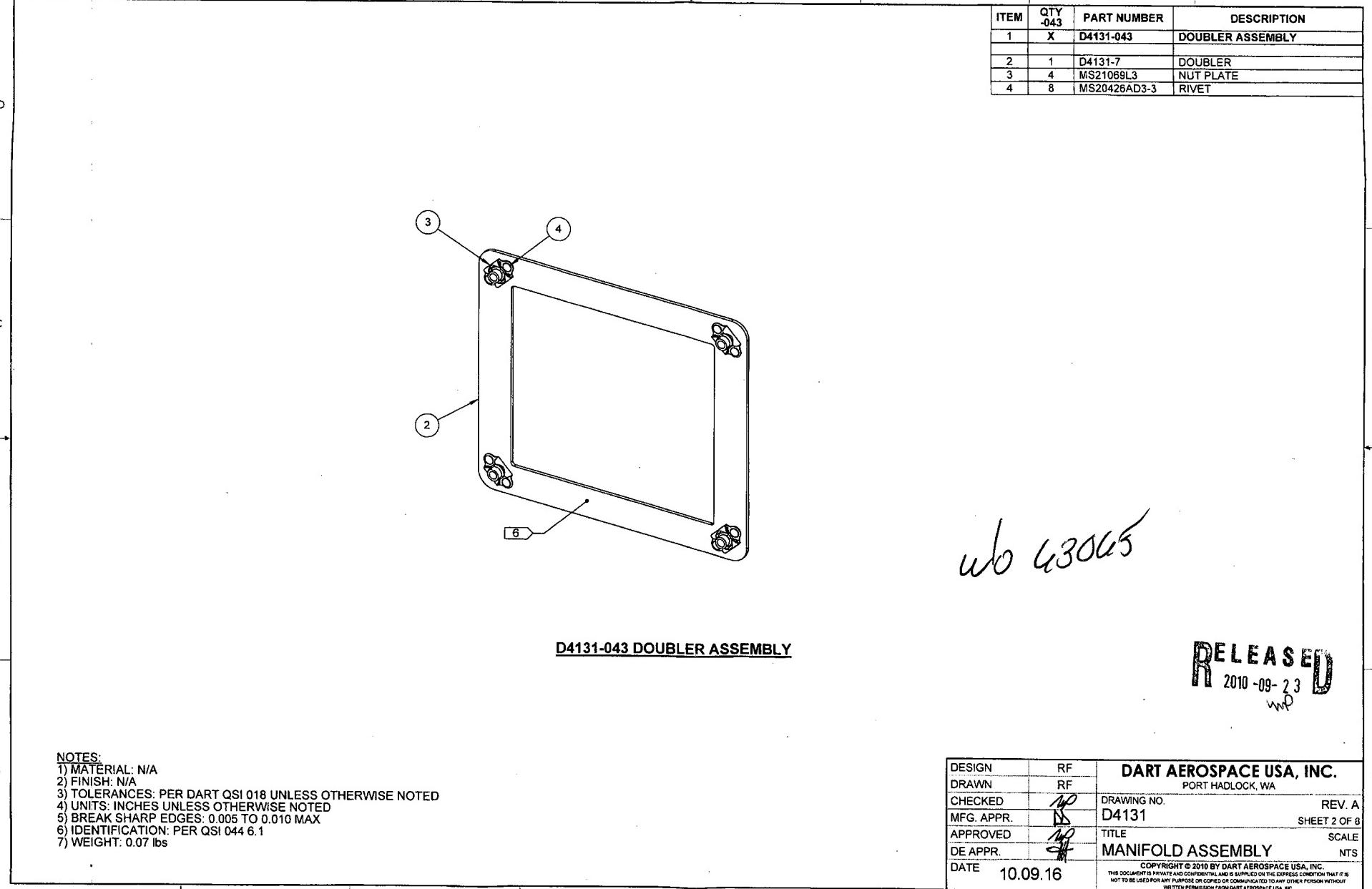
Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

8 7 6 5 4 3 2 1

ITEM	QTY	PART NUMBER	DESCRIPTION
1	X	D4131-043	DOUBLER ASSEMBLY
2	1	D4131-7	DOUBLER
3	4	MS21069L3	NUT PLATE
4	8	MS20426AD3-3	RIVET



8 7 6 5 4 3 2 1

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
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			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

8 7 6 5 4 3 2 1

D

C

B

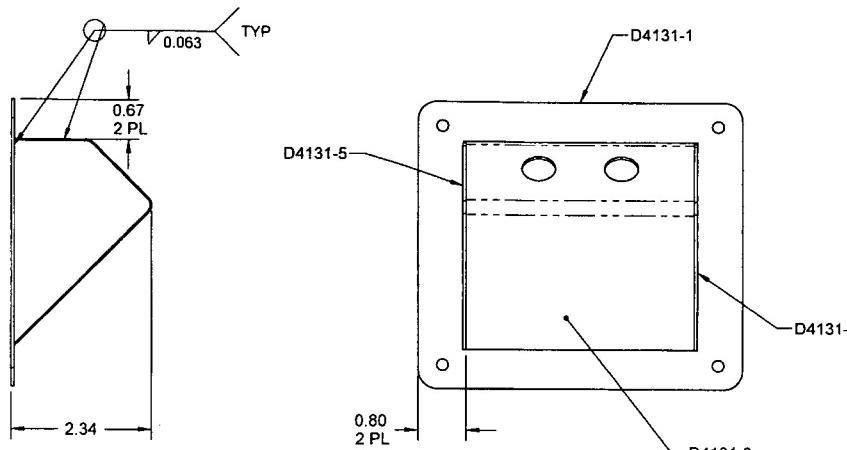
A

D

C

B

A

D4131-041 MANIFOLD ASSEMBLY

u6 438e5

RELEASED
2010-09-23

NP

NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: PER QSI 044 6.1
- 7) WEIGHT: 0.64 lbs
- 8) WELD PER DART QSI 004

8 7 6 5 4 3 2 1

DESIGN	RF	DART AEROSPACE USA, INC.
DRAWN	RF	PORT HADLOCK, WA
CHECKED	<i>140</i>	DRAWING NO.
MFG. APPR.	<i>DA</i>	REV. A
APPROVED	<i>140</i>	SHEET 3 OF 8
DE APPR.	<i>140</i>	TITLE
DATE	10.09.16	SCALE
		NTS
		MANIFOLD ASSEMBLY

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W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

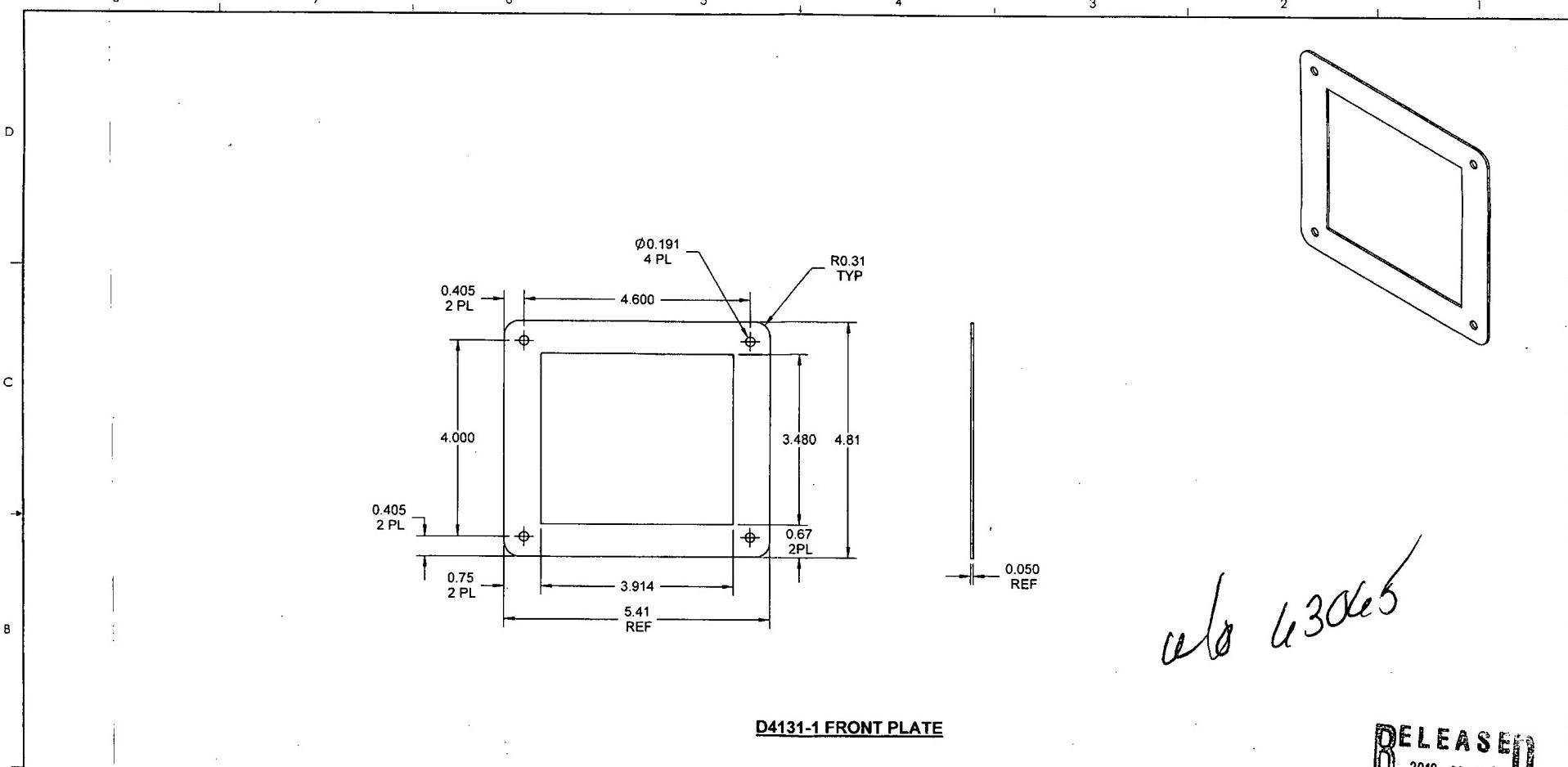
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Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

8 1 7 1 6 5 4 3 2 1



NOTES:

- 1) MATERIAL: AISI 304/316 STAINLESS STEEL ANNEALED 2B FINISH 0.050 (18 GAUGE) SHEET
PER MIL-S-5059
OR AMS 5513 (304)
OR AMS 5524 (316)
OR ASTM A240
OR ASME SA240
PER DART SPEC. M304S18GA
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: NONE
- 7) WEIGHT: 0.18 lbs

RELEASED
2010-09-23

DESIGN DRAWN	RF RF	DART AEROSPACE USA, INC. PORT HADLOCK, WA	
CHECKED	<i>MP</i>	DRAWING NO.	REV. A
MFG. APPR.	<i>MP</i>	D4131	SHEET 4 OF 8
APPROVED	<i>MP</i>	TITLE MANIFOLD ASSEMBLY	SCALE NTS
DE APPR.	<i>MP</i>	DATE 10.09.16	COPYRIGHT © 2010 BY DART AEROSPACE USA, INC. THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SHIPPED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT WAS SHIPPED. IT IS THE PROPERTY OF DART AEROSPACE USA, INC. WRITTEN PERMISSION FROM DART AEROSPACE USA, INC.

8 1 7 1 6 5 4 3 2 1

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

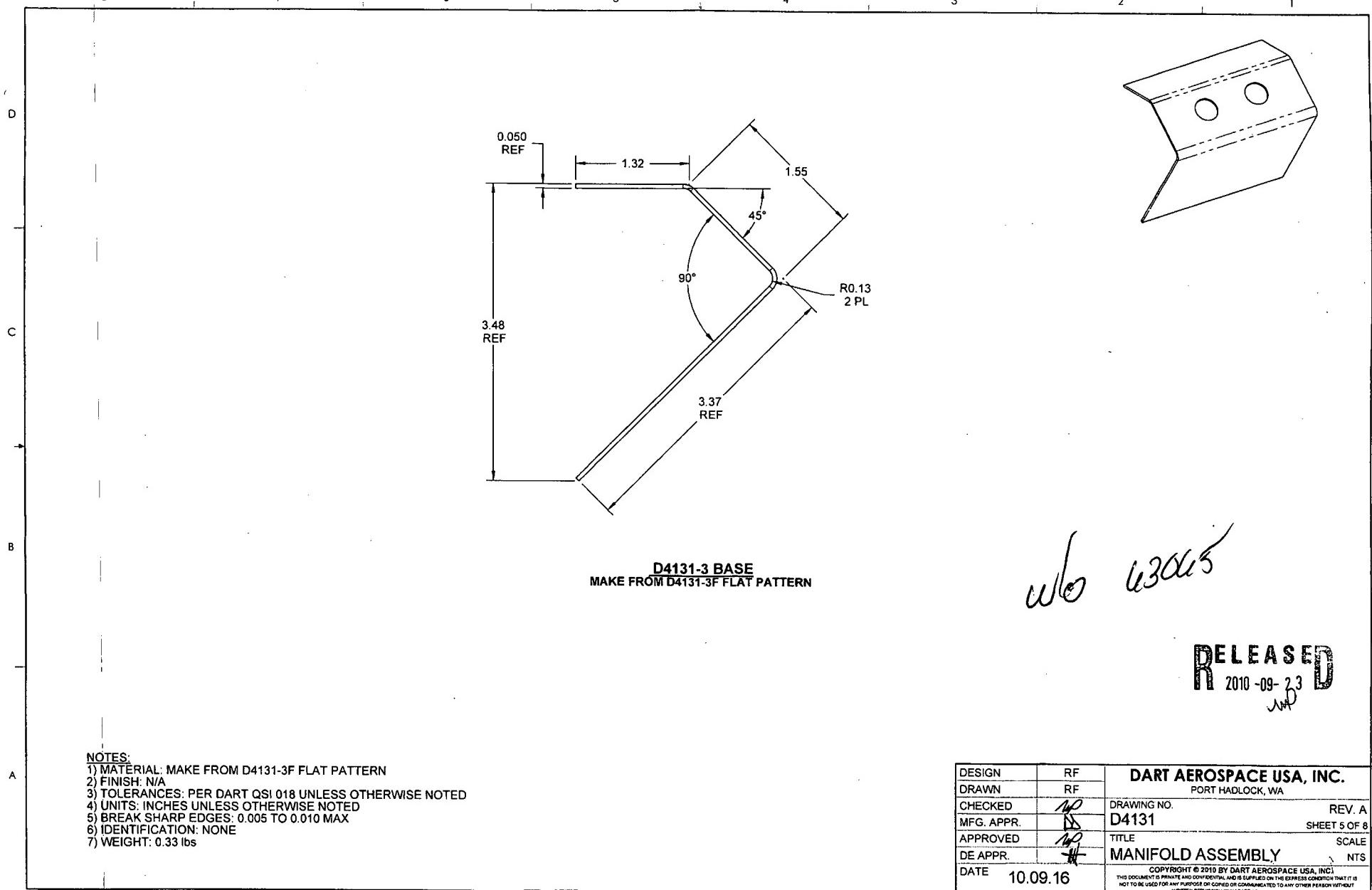
Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

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DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

8 1 7 6 5 4 3 2 1



A

NOTES:

- 1) MATERIAL: MAKE FROM D4131-3F FLAT PATTERN
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: NONE
- 7) WEIGHT: 0.33 lbs

8 1 7 6 5 4 3 2 1

DESIGN	RF	DART AEROSPACE USA, INC.	
DRAWN	RF	PORT HADLOCK, WA	
CHECKED		DRAWING NO.	REV. A
MFG. APPR.		D4131	SHEET 5 OF 8
APPROVED		TITLE	SCALE
DE APPR.		MANIFOLD ASSEMBLY	NTS
DATE	10.09.16	COPYRIGHT © 2010 BY DART AEROSPACE USA, INC. THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE USA, INC.	

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

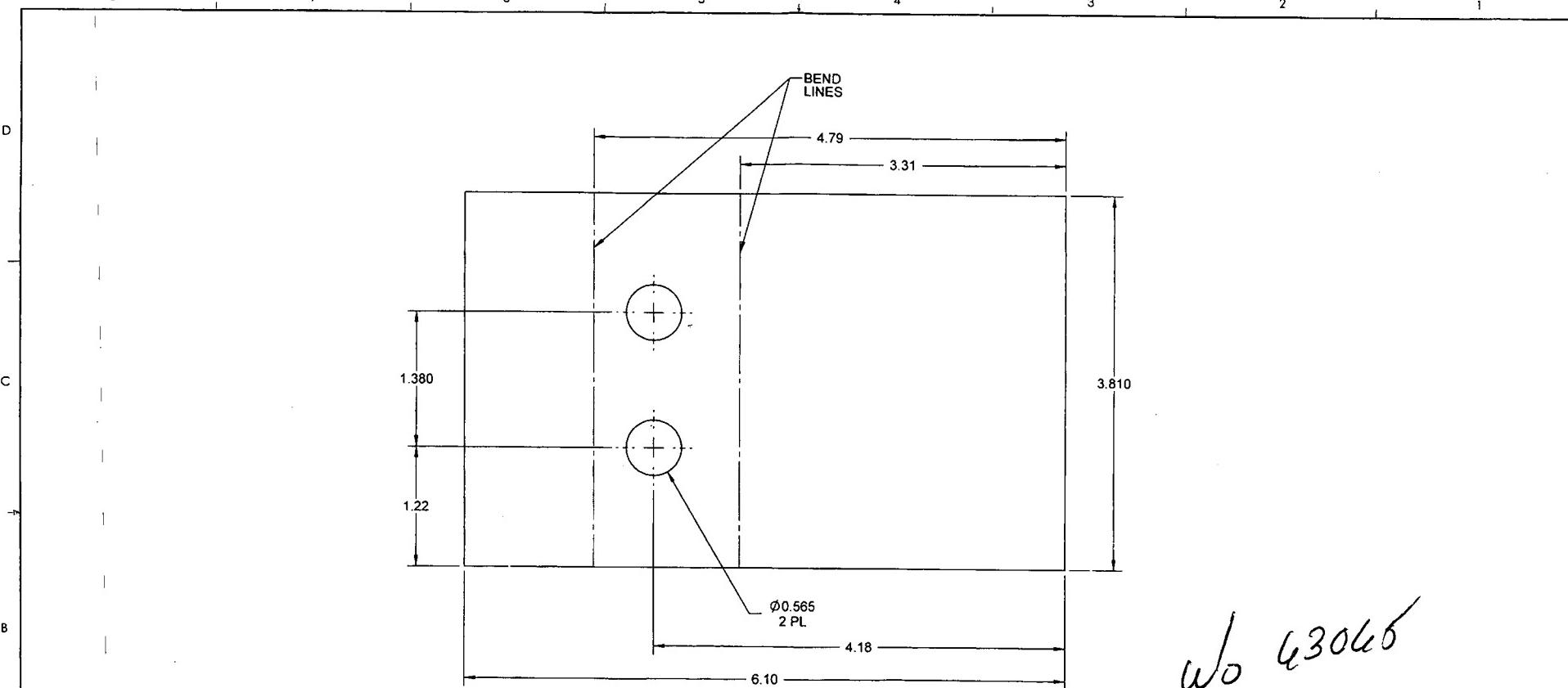
Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

8 7 6 5 4 3 2 1



D4131-3F FLAT PATTERN

W 63066

RELEASED
2010-09-23
M

NOTES:

- 1) MATERIAL: AISI 304/316 STAINLESS STEEL ANNEALED 2B FINISH 0.050 (18 GAUGE) SHEET
PER MIL-S-5059
OR AMS 5513 (304)
OR AMS 5524 (316)
OR ASTM A240
OR ASME SA240
PER DART SPEC. M304S18GA
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: NONE
- 7) WEIGHT: 0.33 lbs

8 7 6 5 4 3 2 1

DESIGN	RF	DART AEROSPACE USA, INC.	
DRAWN	RF	PORT HADLOCK, WA	
CHECKED	M	DRAWING NO.	
MFG. APPR.	N	REV. A	
APPROVED	M	D4131	SHEET 6 OF 8
DE APPR.	N	TITLE	SCALE
		MANIFOLD ASSEMBLY	
DATE	10.09.16	NTS	

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W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

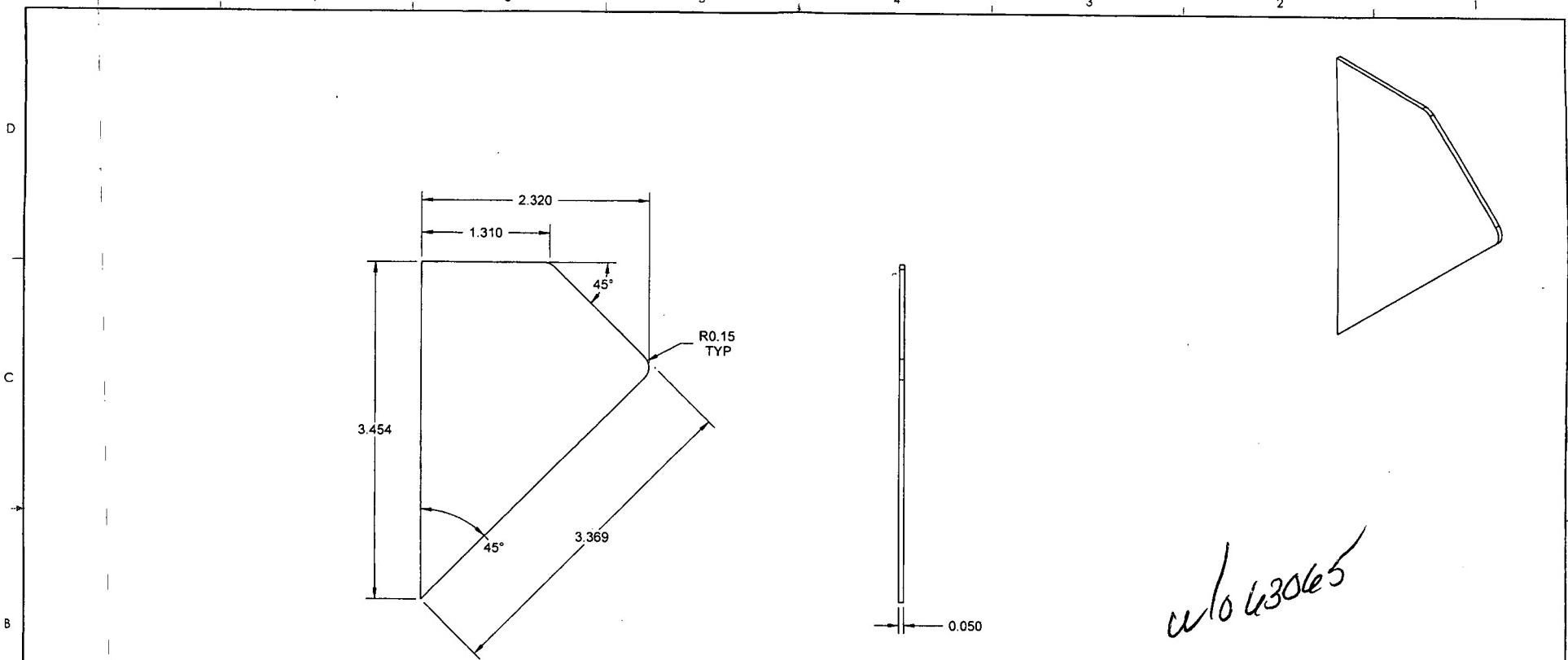
Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

8 1 7 1 6 1 5 1 4 1 3 1 2 1 1



D4131-5 SIDE PLATE

NOTES:

- 1) MATERIAL: AISI 304/316 STAINLESS STEEL ANNEALED 2B FINISH 0.050 (18 GAUGE) SHEET
PER MIL-S-5059
OR AMS 5513 (304)
OR AMS 5524 (316)
OR ASTM A240
OR ASME SA240
PER DART SPEC. M304S18GA
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: NONE
- 7) WEIGHT: 0.07 lbs

8 1 7 1 6 1 5 1 4 1 3 1 2 1 1

W/0 43045

RELEASED
2010-09-23
MM

DESIGN	RF	DART AEROSPACE USA, INC.	
DRAWN	RF	PORT HADLOCK, WA	
CHECKED	RP	DRAWING NO.	
MFG. APPR.	RP	REV. A	SHEET 7 OF 8
APPROVED	RP	TITLE	SCALE
DE APPR.	RP	MANIFOLD ASSEMBLY	
DATE	10.09.16	NTS	

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8 1 7 1 6 1 5 1 4 1 3 1 2 1 1

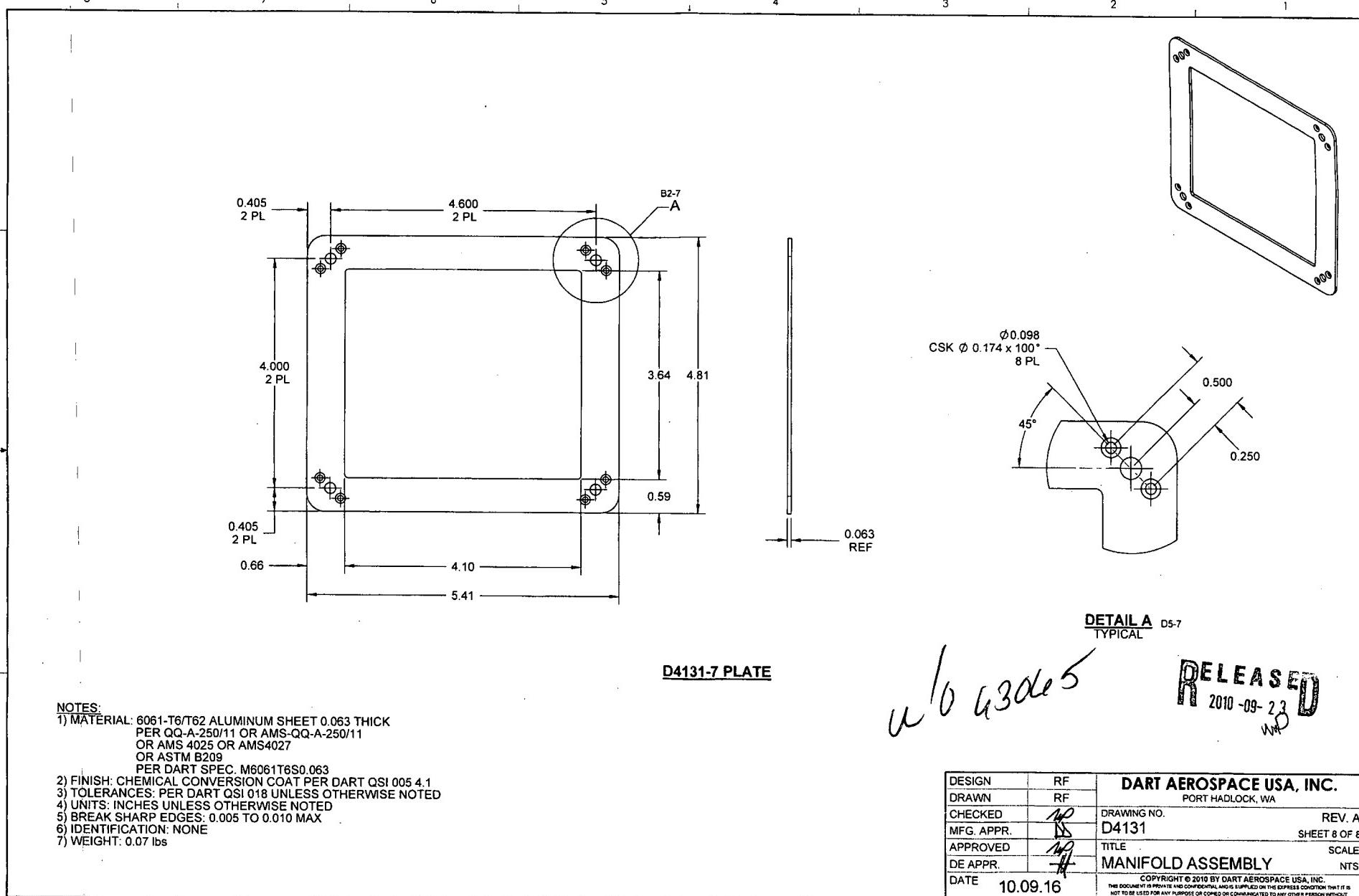
W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries



W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

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DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Receiving Report

Date: 9/10/13

Supplier: MAGNA

Packing Slip: Yes No
 Invoice: Yes No
 Receipt: Cash Cr

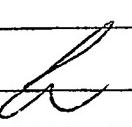
Batch No: M112885

Dart P/O: 10550

Release Note Attached: Yes No N/A
 Waybill Attached: Yes No
 Shipment Complete: Yes No N/A
 QC6 Inspection N/A
 Work Order A11014 N/A

Discrepancies

Part Number	Description	Quantity Ordered	Quantity Received	Quantity Returned	Quantity Short	Comments

Initials of receiver (if shipment OK) Level 12 

Production/Admin:

Date 09/10/14

Received/Costing

Initial AS

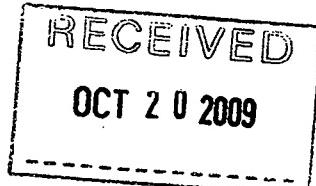
Location

Pg 1 of 1

I017858

SOLD TO:

DART AEROSPACE LTD
 1270 ABERDEEN STREET
 HAWKESBURY , ON
 K6A 1K7



SHIP TO:

DART AEROSPACE LTD
 1270 ABERDEEN STREET
 HAWKESBURY , ON
 K6A 1K7

MTR: Y

INVOICE DATE:	10/13/09
ORDER DATE:	10/08/09
SHIP DATE:	10/13/09
ORDER NUMBER:	W019653
PURCHASE ORDER:	P010550

Currency	Sales Person			Ship Via	F.O.B.	Terms	
CANADIAN DOLLARS	ERYCK BLAIS			NIR:R-557065-1	PREPAID	NET 30 DAYS	
Ln	Back Ordered	Ordered	Unit	Description	Shipped	Price Per	Value
				STAINLESS SHEET SSH 304 2B 26GA x 48" x 96" L029393 3 PC/73 LB	3 UN	60.00	180.00
		3	PC	SSH 304 2B 20ga x 48" x 96" L029413 3 PC/150 LB	3 UN	115.00	345.00
		4	PC	SSH 304 2B 18ga x 48" x 96" L030411 3 PC/202 LB L028388 1 PC/67 LB	4 UN	135.00	540.00
		4	PC	SSH 304 2B 16ga x 48" x 96" L031195 4 PC/336 LB	4 UN	170.00	680.00

10/14/09 11:47:23

Merchandise:	1,745.00
Surcharges:	
No Tax Costs:	
GST	87.25
Total Due:	1,832.25

Title to the goods sent out on this invoice remains with Magna Stainless Div of CSM ULC until such time as this invoice has been paid in full. Unless otherwise noted terms are 30 days. Interest accrues on all overdue accounts at the rate of 1.5% per month compounded monthly.

Q.S.T. # 1213236471
 G.S.T. # 881565899 RT0001

Purchase Order Receipt Listing

Page 1 of 1

October 14, 2009 11:28:00 AM

All amounts are calculated in domestic currency.

All Vendors PO ID po10550 All Receipt Dates All Line Item Types

All Item ID/GL/WOs All Rec. Employees All Currencies

Grouped by Vendor ID

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
VendorID\Vendor Name		VC-MAG002	Magna Stainless								
PO10550	1		M304S16GA	sf		10/13/09	10/13/09	128.0000	\$5.31	0.0000	0
CAD	No		304/316 Sheet .063	sf		128.0000	Stores		\$680.00	0.0000	0
			112885								
	2		M304S18GA	sf		10/13/09	10/13/09	128.0000	\$4.22	0.0000	0
	No		304/316 .050 Sheet	sf		128.0000	Stores		\$539.99	0.0000	0
			112885								
	3		M304S20GA	sf		10/13/09	10/13/09	96.0000	\$3.59	0.0000	0
	No		304/316 .040 Sheet	sf		96.0000	Stores		\$345.00	0.0000	0
			112885								
	4		M304S26GA	sf		10/13/09	10/13/09	96.0000	\$1.88	0.0000	0
	No		304/316 0.018	sf		96.0000	Stores		\$180.00	0.0000	0
			SHEET								
			112885								
											Total Received Quantity: 448.0000
											Total Qty to Inspect (PO U/M): 0.0000
											Total Reject Quantity: 0.0000
											Total Receipt Value: \$1,744.99
											Total Balance Due Quantity: 0.0000

MAGNA INOXIDABLE

Magna Stainless

5775 Kieran St, Saint-Laurent, Quebec H4S 0A3
Phone: (514) 339-1211 Watts: 1-800-363-6646 Fax: (514) 339-1105

PACKING LIST

I017858

Page: 1 of 1

SOLD TO:
DART AEROSPACE LTD
1270 ABERDEEN STREET

HAWKESBURY , ON
K6A 1K7
Contact: CHANTAL

Contact: CHANTAL

SHIP TO:
DART AEROSPACE LTD
1270 ABERDEEN STREET

HAWKESBURY , ON
K6A 1K7
Ship Terms: PREPAID

Ship Terms: PREPAID



SPECIAL INSTRUCTIONS

Currency		Sales Person		Customer Phone	Customer Fax	Customer PO		
CANADIAN DOLLARS		ERYCK BLAIS		(613) 632-5200	(613) 632-1053	P010550		
Sales Order	Terms		Ship Via		Date Ordered	Date Required	Date Shipped	
W019653	NET 30 DAYS		NIR:R-557065-1		10/08/09	10/13/09	10/13/09	
Ordered	Back Ordered	Unit	Description			Bundle #	Heat #	Shipped
3		PC	STAINLESS SHEET SSH 304 2B 26GA x 48" x 96"			73 LB / 3 PC ✓ L029393	N69146	3
3		PC	SSH 304 2B 20ga x 48" x 96"			150 LB / 3 PC ✓ L029413	SC18740	3
4		PC	SSH 304 2B 18ga x 48" x 96"			202 LB / 3 PC ✓ L030411	0418904	4
4		PC	SSH 304 2B 16ga x 48" x 96"			67 LB / 1 PC ✓ L028388	SC17938	1
						✓ 336 LB / 4 PC ✓ L031195	A2800233	4
Skids: 1							Total Weight:	828 LB
							ccy/09/13	

Skids: 1

Received by

Date

Signature:



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO10550

Purchase Order Date 08/10/2009

PO Print Date 08/10/2009

Page Number 1 of 2

Order From :

VC-MAG002

MAGNA STAINLESS
5775 RUE KIERAN
ST LAURENT, QC H4S 0A3
CA

FAXED
action

Contact Name
Vendor Phone 800 363 6646
Vendor Fax 514 339 1105
Vendor Account Nbr

Buyer Chantal Lavoie
Requisition Nbr
Tax Resale Nbr 10127-2607
Terms Net 30
Currency CAD
FOB

Ship To : DART AEROSPACE LTD 1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Line Nbr	Reference Revision ID	Description/ Mfg ID	Req Date/ Taxable	Req Qty/ Unit of Measure	Ship Method	Unit Price	Extended Price	
	Vendor Part Number							
1	M304S16GA	304/316 Sheet .063 <i>4x32</i>	13/10/2009 Yes	✓ 128.00 sf	Purolator ground	\$5.3125	\$680.00	
		Special Inst:	Purch. Mat: AISI 304/316 SS Sheet ANNEALED 2B finish Spec: MIL-S-5059 or AMS 5513(304) or AMS 5524(316) or ASTM A240 or ASME SA240					
2	M304S18GA	304/316 .050 Sheet	13/10/2009 Yes	✓ 128.00 sf	Purolator ground	\$4.2187	\$539.99	
		Special Inst:	SAME AS ABOVE					
3	M304S20GA	304/316 .040 Sheet <i>3x32</i>	13/10/2009 Yes	✓ 96.00 sf	Purolator ground	\$3.5937	\$345.00	
		Special Inst:	SAME AS ABOVE					
4	M304S26GA	304/316 0.018 SHEET	13/10/2009 Yes	✓ 96.00 sf	Purolator ground	\$1.8750	\$180.00	

legacy/13
No substitution or deviation without
consent.
Certificate of Conformity or Material
Certification required when applicable

Change Nbr: 1

Change Date: 08/10/2009

POSCO Mill Test Certificate/검사증명서 MO 17117

Order No./주문번호: 0008353485

PO No./제문번호: 0363485

Certificate No./증명서번호: 080910-PRSE-010-001

Date of Issue/발행일자: Sep., 16, 2008

Surface Finish/표면마무리: NO.2B

Supplier/주문자: DAE WOO INTERNATIONAL CORP.

Commodity/품명: STAINLESS COLD ROLLED COIL

Customer/구매자: MAGNA STAINLESS INC.

Spec & Type/규격: ASTM-A240-304

Size/가로수	Product No./제품번호	Qulaity/품질	Weight/중량	Heat No./제작번호	Test Result/검사결과					Chemical Composition/화학성분(%)								
					P.S. YS (%)	T.S. (MPa)	E.L. (%)	Hardness HRC	C %	Si %	Mn %	P %	S %	Cr %	Ni %	Cu %	Mo %	N %
0.80x1219xC	QGH0299A	1	4,677	SE37926	T: 266	643	60	82.0	0.039	0.52	1.065	0.016	0.04	18.16	8.04	4.42	2.3	0.61
0.90x1219xC	QGH0299B	1	4,677	SE37926	T: 277	649	60	83.5	0.039	0.52	1.065	0.016	0.04	18.16	8.04	4.42	2.3	0.61
*** Sub. Total		(010)			R: 268	643	60	83.0										
1.20x1219xC	QEHO031B	3	5,649	SC17938	9,854 (kg)													
1.20x1219xC	QEHO031C	4	4,150	SC17938	T: 261	651	60	82.3	0.039	0.52	1.031	0.017	0.04	18.11	8.04	3.99	1.5	0.32
1.20x1219xC	QEHO031D	5	6,526	SC17938	B: 263	663	59	84.7	0.039	0.52	1.031	0.017	0.04	18.11	8.04	3.99	1.5	0.32
*** Sub. Total		(020)			R: 268	663	59	84.5										
1.50x1219xC	QEHO030A	1	5,369	SC17797	16,835 (kg)													
1.50x1219xC	QEHO030B	1	5,379	SC17797	T: 285	643	58	83.7	0.039	0.52	1.052	0.017	0.03	18.02	8.03	3.99	1.4	0.33
1.50x1219xC	QEHO030C	1	5,225	SC17797	B: 287	646	58	88.0	0.039	0.52	1.052	0.017	0.03	18.02	8.03	3.99	1.4	0.33
*** Sub. Total		(030)			R: 285	643	58	83.7										
					15,878 (kg)													

Position - T: Top, M: Middle, B: Bottom

Tensile Test Direction: Transversal, Gauge Length: 50mm (Rectangular)

Method: 0.2% off-set

Chemical Analysis:

Chemical Composition Unit: 2x1100, 3x14000, 4x140000, 5x1190000

Tr : It is within the standard range(<0.008%) and include trace element

We hereby certify that the material herein has been tested in accordance with the order and specification.

Test Certificate is issued according to EN10204-3.1B.

This Mill Test Certificate cannot be copied for any purpose.

Surveyor To:

W.G. Jo

MO 18855

POSCO Mill Test Certificate/검사증명서

Order No./계약번호:0003445692

PO No./주문번호:3445692

Certificate No./증명서번호:081027-PRSE-018-001

Date of Issue/발행일자:Oct., 30, 2008

Surface Finish/표면마무리:NO.2B

Supplier/주문자:DAE WOO INTERNATIONAL CORP.

Commodity/품명:STAINLESS COLD ROLLED COIL

Customer/고객사:MAGNA STAINLESS INC.

Spec & Type/규격:ASTM-A240-304

Size/기수	Product No. 제품번호	Quan- tity 수량	Weight 중량 (kg)	Heat No. 제강번호	P o s i t i o n	Tensile/인장시험			Hard- ness /경도 HRB	D i v i s i o n	Chemical Composition/화학성분(%)									
						YS 0.2%	TS (MPa)	EL (%)			C	Si	Mn	P	S	Cr	Ni	Cu	Mo	N
0.90x1524xC	QBK0069A	1	4,995	SC19177	T	262	848	59	82.6	L	562	420	1050	280	33	1815	804	320	11	403
0.90x1524xC	QBK0069B	1	4,995	SC19177	B	259	854	61	81.3	L	562	420	1050	280	33	1815	804	320	11	403
*** Sub Total (010) ***			2		T	262	848	59	82.6											
0.90x1219xC	QGJ0258BA	1	5,980	SC18740	T	273	840	58	85.3	L	505	360	1050	280	31	1835	817	370	13	442
0.90x1219xC	QGJ0258BB	1	5,960	SC18740	B	281	848	54	86.6	L	505	360	1050	280	31	1835	817	370	13	442
0.90x1219xC	QGH0799C	1	4,896	SE37926	T	273	640	58	85.3	L	639	352	1065	293	55	1816	804	442	23	381
0.90x1219xC	QGH0799C	1	4,896	SE37926	B	281	648	54	86.6	L	639	352	1065	293	55	1816	804	442	23	381
*** Sub Total (020) ***			3		T	277	649	60	82.0											
1.50x1524xC	QBK0171A	1	6,341	SC19146	T	273	637	57	83.1	L	587	410	1130	310	31	1819	803	350	10	348
1.50x1524xC	QBK0171C	1	6,810	SC19146	B	273	637	57	83.0	L	587	410	1130	310	31	1819	803	350	10	348
*** Sub Total (030) ***			2		T	273	637	57	83.1											
1.50x1219xC	QEJ1008A	1	5,952	SC19200	B	281	636	56	83.8	L	558	410	1040	320	38	1811	806	330	11	372
285						285	644	55	85.2											

• Position - T : Top, M : Middle, B : Bottom

• Tensile Test. Direction : Transversal. Gauge Length : 50mm(Rectangular).

YP Method : 0.2% off-set

• Division - L:Ladie Analysis

• Chemical Composition Unit: -2:x1/100, -3:x1/1000, -4:x1/10000, -5:x1/100000

• Tr : It is within the standard range(<0.008%) and include trace element.

We hereby certify that the material herein has been made in accordance with the order and specification.

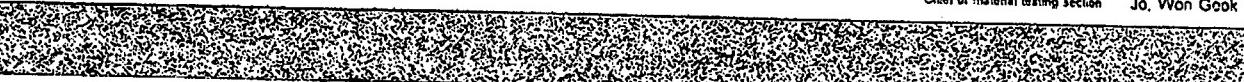
Test Certificate is issued according to EN10204 3.1B.
 • This Mill Test Certificate cannot be copied for any purpose.

Surveyor To:

ORIGINAL

POSCO Pohang Works, 5 Dongchon-dong, Nam-gu, Pohang-si, Gyeongsangbuk-do, 790-785, Korea

Chief of material testing section JO, Won Gook



Mill Certificate



Customer : ASA ALLOY
 Order No : 807090251
 Steel Grade : TYPE304
 State of Delivery : SOLUTION TREATED

Changwon Works
 P.O BOX 95, changwon,korea
 Telefax:055-268-4133

Inspection No : 20080821100422
 Specification : ASTM-A240/480
 Edition : 2006b
 Date of Issue : AUG.04.2008

20080821100422

SOL. Treated

No	Case No.	Work No.	Dimension			Surf -ace	Quan -ty	Weight (KG)	Heat No.	Chemical Composition(%)									
			Thickness (mm)	Width (mm)	Length ()					C	Si	Mn	P	S	Ni	Cr	Mo	N	
			Max	0.08	0.75	2.00	0.045	0.030	10.50	20.00		0.1000							
1	C-0112	C08339111-800	0.500 X 1219	COIL	2B			7,446	N69146	.07	.51	.78	.034	.013	8.02	18.10		.0220	
2	C-1901	C0833A202-800	0.500 X 1219	COIL	2B			7,997	N70816	.07	.46	.78	.027	.013	8.07	18.17		.0230	
3																			
4																			
5																			
6																			
7																			
8																			

No	Test No.	Mechanical Properties						
		Yield Strength		Tensile Strength	Elonga -tion	Hard -ness	Direction	Bend Test
		0.2%	1.0%	(MPa)	%	(HRB)		
		Max				92		
1	9111-1	286		666	63	84	TRANS	
2	A202-1	293		680	63	86	TRANS	
3								
4								
5								
6								
7								
8								

Remark									
본 검사 증명서에 명시된 규격 응도와 사용시 안전상의 문제가 발생할 수 있으며, 검사 증명서 위변조시 사법처 인조(형법231조)로 불이익을 당하실 수 있습니다.									
We hereby certify, that the Material described above has been tested and complies with the terms of the order contract.									ISO 9001:2000

Changwon Works:
 66. Shinchon-Dong, Changwon, Kyungnam, Korea. 641-370
 Ulsan Works:
 250. Yeocheon-Dong, Namgu, Ulsan, Korea. 680-090

e. S. KIM
 Manager of Quality Assurance Section
 6866666

MILL TEST REPORT

www.tachen.com

TA CHEN INTERNATIONAL CORPORATION

MTR#: TXCL1728 Customer#: MAGDOR PO#: P006322

SO#: PE6923

MTR#: 18GA4896302B Bundle#: H225156900 Heat#: 0418904

This MTR contains 1 page (Page: 1)

A company
of ThyssenKrupp
Stainless

ThyssenKrupp Mexinox

TXCL1728



TEST REPORT (CERTIFICADO)

CUSTOMER (CLIENTE)

MEXINOX USA

MILL ORDER No. No. DE PEDIDO	4546 - 8	PACKAGE (EMPACUE) No. H2251509 DO
CUSTOMER PURCHASE ORDER No.	L26123	DATE (FECHA) JUN-11-09
CODE PART NUMBER	REPORT (CERTIFICADO) No. EJ3902	

PRODUCT IDENTIFICATION
IDENTIFICACION DEL PRODUCTO

ITEM No.	COIL NO. NO. DE ROLLO	PIECES PIEZAS	HEAT COLADA No.	TYPE AND FINISH TIPO Y ACABADO	DIMENSIONS DIMENSIONES	In mm	GROSS WT. PESO BRUTO	lb kg	NET WT. PESO NETO	Kg
1	693399 AGAA	46	D418904	304 / 2B UNS S30400	48.00 X 98.00 1219.20 X 2438.40	X X 1.220	.0480 3,034	1,376	2,662 1,298	

CHEMICAL COMPOSITION
COMPOSICION QUIMICA (%)

OTHER ELEMENTS (OTROS ELEMENTOS)

ITEM	C	Cr	Mn	N	Ni	P	S	Si		
1	.0480	18.9400	1.3000	.0450	8.0600	.0280	.0010	.3700		

MECHANICAL PROPERTIES
PROPIEDADES MECANICAS

ITEM No.	TEST No. No. MUESTRA	D	TENSILE S. R. TENSION	YIELD S. R. FLUENCIA	ELONGATION % ALARGAMIENTO	HARDNESS DUREZA HRB	
1	A755778 A755778	L	92679 psi 639 MPa	44961 psi 310 MPa	61.2	(HEAD) 83.0 / 83.0	

S01/16/14

THIS MATERIAL IS DYAR 225.871-1 CLAUSE COMPLIANT. HEAT SOURCE: ITALY

THIS MATERIAL COMPLIES WITH CHEMICAL COMPOSITION ACCORDING TO ASTM A 240/A 240M-08 STD. NOM. AND IT COMPLIES ALSO WITH THE MECHANICAL AND CHEMICAL PROPERTIES ESTABLISHED IN THE FOLLOWING STD'S :
ARM 8A240-95, QO-S-766-D, MIL-S-5059-D, AMS 5513G.

THIS MATERIAL IS FREE OF MERCURY CONTAMINATION



We hereby certify that in recognition of the terms and conditions set forth in the EU RoHS Directive -2002/95/EC, we can assure that all of our products and processes fully comply with it.

HECHO EN MEXICO / MADE IN MEXICO

ELABORATED BY
Jose Luis Vazquez Mata

PRINTED : 13:49:16 JUL-10-09

FORMATO No. 38 - 027 - 02 Rev. 2



INSPECTION CERTIFICATE

732469
U2122

**Shanxi Taigang Stainless Steel CO.,LTD Member
of Taiyuan Iron and Steel (Group) Co.,LTD**
NO.2 jiancaoping, Taiyuan, Shanxi, P.R.China
TEL: (0351)3013328 FAX: (0351)3017816
<http://www.tisco.com.cn>
E-mail: tgbxg@tisco.com.cn

MILL TEST CERTIFICATE

CERTIFICATE NO.	T08-692B	
MATERIAL	AISI304 NO. 2B FINISH	
SPECIFICATION	ASTM A240-04/A480-04, ASME ASTM A666, AWS 5613/5511	1240/A480
L/C No.		

CUSTOMER

Ta Chen International, Inc.

CONTRACT NO.

L22628

DATE OF ISSUE

20080401

Product

Melting furnace

Inspectors Stamp

Mark of the Manufacturer

SHEET

E+VOD



Shanxi Taiyuan Stainless Steel Co.,ltd

NO.	Heat No.	Coil No.	Batch No.	Quantity	Dimensions (inch)	Weight(Pound)
50	A2800233	KA80261160J10H1	78255692	1	16GA x 48" x 96	4226
51	A2800233	KA80261160J20H3	78255694	1	16GA x 48" x 96	4248
52	A2800233	KA80261160J10H2	78255696	1	16GA x 48" x 96	4248
53	A2800233	KA80261160J20H2	78255700	1	16GA x 48" x 96	4303
54	A2800233	KA80261130P10H4	78255864	1	16GA x 48" x 96	3973
55	A2703845	KA80181530F10H1	78252411	1	14GA x 48" x 120	4707
56	A2703845	KA80181530P10H2	78252414	1	14GA x 48" x 120	4442

Chemical Composition

Heat No.	C	Si	Mn	P	S	Cr	Ni	Cu	Al	N	Mo	Ti
A2800233	0.042	0.491	1.143	0.026	0.002	18.337	8.012	0.119		0.0	0.093	
A2800233	0.042	0.491	1.143	0.026	0.002	18.337	8.012	0.119		0.0	0.093	
A2800233	0.042	0.491	1.143	0.026	0.002	18.337	8.012	0.119		0.0	0.093	
A2800233	0.042	0.491	1.143	0.026	0.002	18.337	8.012	0.119		0.0	0.093	
A2800233	0.042	0.491	1.143	0.026	0.002	18.337	8.012	0.119		0.0	0.093	
A2703845	0.043	0.538	1.234	0.027	0.002	18.164	8.050	0.218		0.4	0.114	
A2703845	0.043	0.538	1.234	0.027	0.002	18.164	8.050	0.218		0.4	0.114	

Mechanical Properties (Test temperature :20°C)

Test No.	Tensile R.m N/mm ²	$R_{p0.2}$ Yield _{0.2%} N/mm ²	$R_{p1.0}$ Yield _{1.0%} N/mm ²	Elongation		Corrosion Tests	Hardness		
				AS (%)	AS0(%)		HRB	HV	HRC
78255692-T	640	293			54		87.5		
78255694-T	640	293			54		87.5		
78255696-T	640	293			54		87.5		
78255700-T	640	293			54		87.5		
78255864-T	645	292			53		88.0		
78252411-T	640	299			55		86.5		
78252414-T	640	299			55		86.5		

SPECTROMETER SORTING TEST: OK

EN 10204-3. 1B

Place: Taiyuan

Work Inspector: 李忠新



FEBRUARY 19